
View-Displays

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View-Displays

Note:

This condensed version of CADD PRIMER is intended to give you an overview of CADD. It includes only important topics from CADD PRIMER. It does not include any diagrams. CADD PRIMER includes more than 100 diagrams that illustrate the working of CADD. For complete understanding of CADD refer to CADD PRIMER. This complete book is available for download for \$9.95 at <http://www.caddprimer.com> or you can order printed copies through the publisher listed at the end of this chapter.

About this Chapter

This chapter describes CADD's view-display functions. These functions allow you to display different views of a CADD drawing. They make it possible to work on various portions of a drawing. You can move the image on the screen to display a desired view and enlarge or reduce the images as required.

Key Terms in this Chapter

Term	Description
Pan	To move the view in a specific direction.
Zoom in	To get a closer view.
Zoom out	To get a view from a greater distance.
Zoom factor	To enlarge or reduce the view by a specific degree.
Viewport	A portion of the drawing window that contains an independent view of the drawing.
Window	An imaginary rectangle formed by the indicated points.

The View-Display Functions

CADD's view-display functions enable you to display various views of the drawing. You need to constantly change views in order to work on different portions of the drawing. For example, to draw a line from one corner of a large drawing to another, you may need to change the view two to three times. First, you need to magnify the corner where the line is to be started, then shrink the display to see the entire drawing and locate the other corner of the diagram, and then magnify that corner to indicate the end point of the line.

Working with the view-display functions is similar to using a telescopic camera. You can zoom out to view larger objects, and zoom in to get a closer view of objects. However, CADD's functions are much more precise and flexible. You can magnify the drawings to an exact degree, store specific views in computer memory, and then display them back when required.

Fig. 4.1 (available in CADD PRIMER) shows an engineering drawing of a mechanical part. In the following examples, we will use this drawing to illustrate the different view-display functions.

The following are the main techniques to display views. These techniques are illustrated with diagrams in CADD PRIMER.

Displaying a Full View

Moving the View Sideways

Zooming the View to an Exact Size

Zooming Roughly by Indicating a Window

Saving and Displaying Views

Important Tips:

- Most CADD programs automatically store all the views displayed in the drawing area. You can instantly return to a previous view by entering a command or clicking on a tool button.

- When you are finished working with one portion of the drawing and want to display another view, you can display a full view of the drawing and then zoom in with another window.
- Most CADD programs allow you to display multiple views side by side. The drawing area can be divided into different sections called viewports. You can display a different view in each viewport. This is particularly helpful when working with 3D drawings. For example, you can display a plan view in one viewport, elevation in another and a 3D view in another.

AutoCAD, MicroStation and Cadkey Terms

This topic lists important terms used in leading CADD programs. Refer to CADD PRIMER for details.

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